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Find the *Commell FS-977VL2* at our website: *Click HERE*

# FS-977

**Full-size PICMG-bus mPGA478 Pentium 4 DDR CPU Card
with 533/400 MHz FSB, Intel Extreme SVGA, Dual Intel PRO/100+ LAN
Hi-Speed USB 2.0, Audio, DOC Interfaces and ISA 64mA High Drive Capacity**



Product Information

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## Overview

COMMELL FS-977 SBC (Single Board Computer) is an all-in-one industrial full-size PICMG (PCI/ISA)-bus CPU card based on Intel mPGA478 Pentium 4 architecture. With Intel Brookdale-G/GL chipset, FS-977 offers the value solution with Intel NetBurst micro-architecture, 533/400 MHz of FSB, 2 GB DDR266/333 SDRAM, Intel 845GV GMCH built-in Intel Extreme Graphics, dual Intel PRO/100+ LAN and Hi-Speed USB 2.0 high speed I/O interfaces.

Based on Intel's long term supply chipset, FS-977 should be the ideal solution for long life industrial applied computing platform with high computing capacity and cost effect. The onboard dual Intel PRO/100+ LAN, M-systems DiskOnChip SSD (Solid State Disk), and ISA 64mA high drive capacity also make FS-977 be the value Pentium 4 DDR platform for :

- **Value Industrial Computing Platform**: Intel mPGA478 Pentium 4 / Celeron CPU with 533/400 MHz FSB and 2 GB DDR266/333 SDRAM of system memory, FS-977 offer the high-end industrial computing platform with low cost Intel integrated solution. The long term support, onboard SSD, dual Intel LAN and ISA 64mA high drive capacity also make FS-977 be the ideal solution for industrial server and workstation, CTI (Computer Telephony Integration), VoIP (Voice over IP), and other high-end applications.
- **Low Cost Multi-media Solution**: Intel 845G series chipset built-in Intel Extreme Graphics with 266 MHz VGA core, 256-bit 3D engine and dynamic video memory, offers the value solution for the low cost multi-media computing platform. Such as VoD (video on demand), DVR (Digital Video Recorder), digital video broadcasting (DVB), streaming, surveillance, compression (MPEG), interaction server, workstation and terminal appliances.
- **Double Network Performance**: dual Intel PRO/100+ 10/100 Mbps Fast Ethernet interfaces for redundant LAN (high reliability), double speed (double network transfer performance) or external / internal networking applications.
- **High Speed USB 2.0 Interface**: Intel ICH4 built-in Hi-Speed USB 2.0 controller let FS-977 offer the Hi-Speed USB 2.0 interface with up to 480 Mbps of data transfer rate. It

makes FS-977 be the platform to link with Hi-Speed USB 2.0 devices including digital camera, USB hard disk, and other USB 2.0 based peripherals.

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## Key Feature

- Powerful computing capacity with Intel mPGA478 Pentium 4 / Celeron CPU at 533/400 MHz of FSB with Intel NetBurst micro-architecture
- High memory capacity with 2 GB DDR266/333 SDRAM
- High reliability / high compatibility / long term supply Intel 82845GV GMCH and 82801DB ICH4 solution
- Integrated dual Intel PRO/100+ 10/100 Mbps Fast Ethernet interfaces for redundant, double speed and external / internal networking applications
- Intel 82845GV GMCH built-in Intel Extreme Graphics with 266 MHz VGA core, 256-bit 3D engine and dynamic video memory
- Intel 82801DB ICH4 built-in Hi-Speed USB 2.0 with up to 480 Mbps of data transfer rate
- ISA high drive capacity with enhanced 64mA on data and address bus. Drive capacity up to over 20 pieces of ISA-based add-on cards for CTI, VoIP or other applications with multiple ISA-based peripheral cards
- Integrated SSD (Solid State Disk) interface with M-systems embedded flash disk

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## Specification

- Form Factor: full-size PICMG (PCI/ISA)-bus CPU card with 32-bit PCI and 8/16-bit ISA bus interfaces
- Socket 478 supports Intel® mPGA478 Pentium® 4 / Celeron CPU @ 533/400 MHz FSB
- Chipset: Intel 845GV GMCH and 82801DB ICH4
- DRAM: 2 GB DDR266/333 SDRAM
- PCI Enhanced IDE: dual Channels support 4 ATAPI devices up to UltraATA/100 with 100Mbps of data transfer rate
- VGA Interface: Intel 845GV GMCH built-in Intel Extreme Graphics with 266 MHz VGA core, 256-bit 3D engine and dynamic video Memory
- LAN Interface: Dual Intel PRO/100+ 10/100 Mbps Fast Ethernet interfaces
- Hi-Speed USB 2.0 Ports with up to 480 Mbps of data transfer rate
- ISA High Drive Capacity: ISA 64mA high drive capacity with TI 74ABT162245 buffer, supports over 20 pieces of ISA-based add-on cards
- I/O Ports: two RS232 serial port, SPP/ECP/EPP parallel port, four USB (2.0), FDD, IrDA, PS/2 keyboard and mouse ports
- SSD: onboard M-systems DiskOnChip® socket up to 1 GBytes of flash disk capacity
- Pentium 4 additional +12V power free for standard ATX power supply (with the power from backplane only)

Download Datasheet @ PDF format




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## Ordering Guide

| | |
|---|---|
| **FS-977VL** | Full-size PICMG-bus mPGA 478 Pentium 4 DDR CPU Card<br>With Intel 845GV/ICH4 Chipset, 533/400 MHz FSB, DDR266/333 SDRAM<br>Intel Built-in Extreme 3D VGA, Intel PRO/100+ LAN, Hi-Speed USB 2.0<br>Audio, DiskOnChip Interfaces and ISA 64mA High Drive Capacity |
| **FS-977VL2** | Full-size PICMG-bus mPGA 478 Pentium 4 DDR CPU Card<br>With Intel 845GV/ICH4 Chipset, 533/400 MHz FSB, DDR26/333 SDRAM<br>Intel Built-in Extreme 3D VGA, **Dual** Intel PRO/100+ LAN, Hi-Speed USB 2.0<br>Audio, DiskOnChip Interfaces and ISA 64mA High Drive Capacity |

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